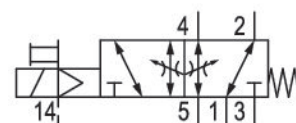


# 5/2-directional valve, Series 581, size 1

## 5811173190

General series information  
ISO 5599-1, size 1, series 581

- The AVENTICS Series 581 complies with the valve standard ISO 5599-1. Due to the level of modularity, the Series offers all valve functions, integrated throttle valves, various pilot coils, and a comprehensive range of accessories.
- $Q_n = 950 \dots 1400$  l/min



### Technical data

Industry  
Industrial

Activation  
Electrically

Nominal flow  $Q_n$   
1400 l/min

Switching principle  
5/2

Compressed air connection output  
Base plate ISO 5599-1

Working pressure min.  
-0.95 bar

Working pressure max  
10 bar

DC operating voltage  
24 V

Voltage tolerance DC  
-10% / +10%

Manual override  
without detent

Electrical connection type  
Plug

Electrical connection size  
EN 175301-803, form A

Actuating control  
Double Solenoid

Sealing principle  
Soft Seal

Pilot  
External

Standards  
ISO 5599-1

Pilot valve width  
30x30 mm CNOMO

Valve type  
Spool valve

<b>Blocking principle</b> Single base plate principle	<b>Max. medium temperature</b> 50 °C
<b>Connection type</b> Plate connection	<b>Medium</b> Compressed air
<b>Return</b> With spring return	<b>Max. particle size</b> 50 µm
<b>Compressed air connection input</b> Base plate ISO 5599-1	<b>Oil content of compressed air min.</b> 0 mg/m <sup>3</sup>
<b>Compressed air connection, exhaust</b> Base plate ISO 5599-1	<b>Oil content of compressed air max.</b> 5 mg/m <sup>3</sup>
<b>Compressed air connection pilot exhaust</b> G 1/8	<b>Protection class with connection</b> IP65
<b>Power consumption DC</b> 6 W	<b>Duty cycle</b> 100 %
<b>Flow conductance C</b> 5.2 l/(s*bar)	<b>Typ. switch-on time</b> 15 ms
<b>Throttle</b> with throttle	<b>Typ. switch-off time</b> 28 ms
<b>Frame size</b> ISO 1	<b>mounting screws</b> with hexagon socket
<b>Control pressure min.</b> 3 bar	<b>Mounting screw tightening torque</b> 2 Nm
<b>Control pressure max.</b> 10 bar	<b>Weight</b> 0.39 kg
<b>Min. ambient temperature</b> -15 °C	<b>Housing material</b> Aluminum
<b>Max. ambient temperature</b> 50 °C	<b>Seal material</b> Acrylonitrile butadiene rubber
<b>Min. medium temperature</b> -15 °C	<b>Part No.</b> 5811173190

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in <https://www.emerson.com/en-us/support>).

## Dimensions

